



2<sup>nd</sup> International Conference on

# Pharmaceuticals & Novel Drug Delivery Systems

20-22 February 2012 San Francisco Airport Marriott Waterfront, USA

## Scientific Program



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18:00-19:00 Registrations

19 February 2012

Day 1 20 February 2012

08:00-09:00 Registrations

08:30-09:00 Breakfast



Breakout Room 1  
9:00 -9:30

## Opening Ceremony

### Keynote Forum

09:30-09:35 Introduction

09:35-10:05 **Dr. Maryse Picher**  
Zintro Inc and CFRX, USA

10:05-10:35 **Dr. Sihong Song**  
University of Florida, USA

Coffee Break 10:35-10:50

10:50-11:20 **Dr. Handan He**  
Novartis Pharmaceuticals Corporation, USA

11:20-11:50 **Dr. Roderick A Slavcev**  
University of Waterloo, Canada

**Dr. William H. Frey II**  
Alzheimer's Research Center, USA

#### Track 1: New Technology of Drug Delivery Systems

Track 1-1: Sustained, Controlled or Modified-release Drug Delivery

Track 1-2: Prodrugs for Better Efficacy

Track 1-4: Biocompatible Polymers and Biopolymers

Track 1-5: Formulation and Drug Delivery Development of Poorly Soluble Drugs

Track 1-6: Gene and Cell Therapy

Session Introduction

11:50-12:10 **Title: Gene and Stem Cell Based Protein Drug Delivery**  
Dr. Sihong Song, University of Florida, USA

12:10-12:30 **Title: Silk- Based Biomaterials for Drug Delivery**  
Dr. Tatyana Dyakonov, Banner Pharmacaps Inc., USA

Lunch Break 12:30-13:10

13:10-13:30 **Title: Plant Metabolites as the Promising Delivery Systems for Poorly Soluble Drugs**  
Dr. Mikhail V. Khvostov, N.N. Vorozhtsov Novosibirsk Institute, Russia

13:30-13:50 **Title: CNOB/ChrR A New Non-invasively Visualizable Therapeutic Regimen**  
Dr. A. C. Matin, Stanford University School of Medicine, USA

13:50-14:10 **Title: Novel Self-associating Biodegradable Polymers for Versatile Drug/Gene Delivery Applications**  
Dr. Afsaneh Lavasanifar, University of Alberta, Canada

- 14:10-14:30 **Title: The Efficacy of Penetration of a Control Released System to Deliver Progesterone Through the Stratum Corneum and Dermis by in vivo Confocal Raman Spectroscopy**  
Dr. Marco Antonio Botelho, University of Potiguar, Brazil
- 14:30-14:50 **Title: Design and Development of Prodrug Strategies for Colon- Specific Drug Delivery in Inflammatory Bowel Disease**  
Dr. Suneela Dhaneshwar, Poona College of Pharmacy, India
- 14:50-15:10 **Title: Tanshinone IIA with Synergic Effects for 5-FU to Treat Human Colon Cancer Colo 205 Cells Xerograft Tumor**  
Dr. Chin-Cheng Su, Changhua Christian Hospital, Taiwan

**Coffee Break 15:10-15:25**

- 15:25-15:45 **Title: Novel Approach for Delivery of Poorly Soluble Drugs: Non Aqueous Microemulsions**  
Dr. Shekhar Verma, Gurughasidas Vishwavidalya, Bilaspur, India
- 15:45-16:05 **Title: Hot Melt Extrusion: Processing Solid Solutions**  
Dr. Gavin P Andrews, Queen's University Belfast, Ireland
- 16:05-16:25 **Title: Levosalbutamol Versus Salbutamol in the Treatment of Acute Exacerbation of Asthma Patient**  
Dr. Md Atiar Rahman, Bangabandhu Sheikh Mujib Medical University, Bangladesh

## Breakout Room 2

### Track 2: Development of Personalized Medicine

**Session Introduction**

- 11:50-12:10 **Title: Pharmacogenomics of Alzheimer's Disease**  
Dr. Jerzy Leszek, Medical University of Wrocław, Poland
- 12:10-12:30 **Title: Sedative-hypnotic Effects of Viola tricolor**  
Dr. Ahmad Ghorbani, Neyshabur Faculty of Medical Sciences, Iran

**Lunch Break 12:30-13:10**

- 13:10-13:30 **Title: Mastering Complexity of Biosystems without Math and Computing back ground**  
Dr. Corrado Priami, University of Trento Centre for Computational and Systems Biology (COSBI), Italy
- 13:30-13:50 **Title: Optimization of HIV and Tuberculosis Co-Treatment in Africa: Pharmacokinetics and Pharmacogenetic Aspects of Interaction between Efavirenz and Rifampicin**  
Dr. Eleni Aklillu, Karolinska Institute, Stockholm, Sweden
- 13:50-14:10 **Title: Novel Bio-Chemical Profiling of Indian Black Teas and Development of Green Tea Based Radical Scavenging Conserve**  
Dr. B.B. Borse, Central Food Technological Research Institute, India
- 14:10-14:30 **Title: Structure Elucidation and Development of Bioactive Natural Products**  
Dr. Sujata Bhat, Mumbai University, India
- 14:30-14:50 **Title: Isolation and Identification of Bioactive Principles of Medicinally Important Vegetables**  
Dr. Jyoti Tripathi, Bhabha Atomic Research Centre, India
- 14:50-15:10 **Title: Indian Medicinal Plants and their Phytochemicals as an Anticancer and Antigout Agent**  
Dr. Shivraj Nile, SRTM University, India

**Coffee Break 15:10-15:25**

## Breakout Room 2

### Track 3: Biopharmaceuticals Development

Track 3-1: Biopharmaceutics and Formulation Development

Track 3-4: Bioavailability and Bioequivalence in Disease State

#### Session Introduction

- 15:25-15:45 **Title: Is there Variability in Release Profiles and Physical Characteristics of Drugs From Different Commercially Available Formulations? Possible Therapeutic Implications**  
Dr. Suong N T Ngo, The University of Adelaide, Australia
- 15:45-16:05 **Title: Ribosome Recycling in Prokaryotes and Eukaryotes; Good Target of Anti-fungal and Anti-bacterial Agents**  
Dr. Akira Kaji, University of Pennsylvania, USA
- 16:05-16:25 **Title: Human Photosynthesis and AD**  
Dr. Arturo Solís Herrera, Human Photosynthesis Study Center, Mexico
- 16:25-16:45 **Title: Exploring the Better Medication for Small Vessel Disease of the Brain Infarction**  
Dr. Taizen Nakase, Research Institute for Brain & Blood Vessels-Akita, Japan
- 16:45-17:05 **Title: PMP22 Genetic Alteration and Modulation of PMP22 Expression by NSC-631570 in Pancreatic Ductal Adenocarcinoma (PDAC)**  
Dr. Nicola Funel, University of Pisa, Italy
- 17:05-17:25 **Title: Effect of Subacromial Sodium Hyaluronate Injection on Rotator Cuff Disease: A double-blind, Placebo-controlled Clinical Trial**  
Dr. Alireza Moghtaderi, Medical University of Esfahan, Iran
- 17:25-17:45 **Title: Biofilm Inhibition and Antimicrobial Action of Lipopeptide Biosurfactant Produced by Thermohalophilic Strain Bacillus sp. DJ 25**  
Dr. Meshref A. Al-Ruwaili, Al-Jouf University, Saudi Arabia
- 17:45-18:05 **Title: Role of Natural Antioxidants in Cancer Chemotherapy**  
Dr. D. Sakthisekaran, University of Madras, India

**Dinner Sponsored by Pharmaceutica Analytica Acta  
19:00-20:00**

## Day 2 21 February 2012

**08:30-09:00 Breakfast**

## Breakout Room 1

### Track 4: Identification and Characterization of Drugs

Track 4-1: Characterization of Synthetic and Natural Products

#### Session Introduction

- 09:00-09:20 **Title: Novel Anticancer Drugs Copper Based: Structural-Activity Correlations, Pre clinical Results and Mechanism of Action**  
Dr. Lena Ruiz-Azuara, Universidad Nacional Autónoma de México, México
- 09:20-09:40 **Title: Pyrrolo[1,2-b][1,2,5]benzothiadiazepine 5,5-dioxides (PBDs), an Experimental Anti-Leukemic Compounds: Deciphering their Mechanism of Action**  
Dr. Gabriella Marfe, University of Rome, Italy
- 09:40-10:00 **Title: Potential Use of DNA Bound Nanoparticles for Transcutaneous Vaccine Delivery**  
Dr. Gülay Büyükköroğlu, Anadolu University, Turkey

- 10:00-10:20 **Title: Synthesis and Biological Evaluation of Benzo[*j*]phenanthridine-7,12-diones as Anti-tuberculosis Agents**  
Dr. Norbert De Kimpe, Ghent University, Belgium
- 10:20-10:40 **Title: Cytotoxic Effects of Polymethoxy Flavones Isolated from *Kaempferia parviflora***  
Dr. Cha-Gyun Shin, Chung-Ang University, Korea
- 10:40-11:00 **Title: Gamma irradiation of Ciprofloxacin in Solid State and In Gel Formulations: Physico-Chemical Characterization**  
Dr. Ibrahim El-Bagory, King Saud University, Saudi Arabia

**Coffee Break 11:00-11:15**

- 11:15-11:35 **Title: Synthesis, Bioactive Attributes and Therapeutic Potential of Novel Derivatives of Nutraceutical Constituents of Selected Spices**  
Dr. Pullabhatla Srinivas, Central Food Technological Research Institute, India
- 11:35-11:55 **Title: Synthesis of Drugs, Saccharified Fatty Esters and 4-methoxy cinnamoyl glycerol by Enzymes**  
Dr. A.Nag, Indian Institute Of Technology, Kharagpur, India
- 11:55-12:15 **Title: Design, Synthesis, Characterisation, Antiproliferative and Anti-angiogenic Activity Novel 4-Anilinoquinazoline Derivatives**  
Dr. D. S. Prasanna, JSS College Mysore, India.
- 12:15-12:35 **Title: Synthesis, Anti-proliferative, Anti-migratory and Anti-invasive Properties of Novel Sugar Milsoxazolines Against Malignant Cancer Cells In Vitro**  
Dr. Kanchugarakoppal S. Rangappa, University of Mysore, India

**Lunch Break 12:35-13:10**

Track 4-2: Structural Analysis: Characterization of Process or Product Related Impurities and Degradants

Track 4-3: Instrumental Methods for Identification and Characterization

Track 4-4: Metabolite Characterization: Drug Discovery

Track 4-5: Advanced Techniques in Structure Characterization

Track 5-4: Food and Drug Safety

**Session Introduction**

- 13:10-13:30 **Title: Antibody-proteases: Predictive and Preventive Tools**  
Dr. Sergey Suchkov, I.M.Kurchatov National Center for Science and Technologies associated with I.M.Sechenov First Moscow State Medical University and Moscow State Medical & Dentistry University, Moscow, Russia
- 13:30-13:50 **Title: Search for Novel Antifungal Agents by Monitoring Fungal Metabolites in Presence of Synthetically Designed Fluconazole Derivatives using NMR Technique**  
Dr. Sudha Srivastava, Tata Institute of Fundamental Research, India
- 13:50-14:10 **Title: Large Scale Purification of Hexastatin Using L-arginine Mediated Renaturation and Size Exclusion Chromatography**  
Dr. Yakkanti A. Sudhakar, Boys Town National Research Hospital, USA
- 14:10-14:30 **Title: Affinity Determinations of Therapeutic Antibodies to Soluble Native Antigens in Human Serum**  
Dr. Christine Bee, Rinat-Pfizer, South San Francisco, USA
- 14:30-14:50 **Title: Anticancer Drug Resistance in Yeast Translocants**  
Dr. Dmitri V. Nikitin, Russian Academy of Sciences, Russia
- 14:50-15:10 **Title: Biomarker of Neurological Diseases and Drug Discovery: A Metabolomic Approach**  
Dr. Afaf El-Ansary, King Saud University, Saudi Arabia

15:10-15:30 **Title: Biophysical characterization of gold nanoparticles-loaded liposomes**

Dr. Mohsen Mahmoud Mady, King Saud University, Saudi Arabia

**Coffee Break 15:30-15:45**

15:45-16:05 **Title: ECG Signal Capturisation and Visual Detection of Heart Abnormalities**

Prof. Jayita Datta, Guru Nanak Institute of Engineering, India

16:05-16:25 **Title: Protein Management Cell Proliferation and Apoptosis of Nicotine Induced Hepatic Cells Under Curcumin Treated Condition**

Dr. Brajadulal Chattopadhyay, Jadavpur University, India

16:25-16:45 **Title: Nicotine Toxicity and Protective Effect of Conjugated Linolenic Acid in Rats**

Dr. Krishna Chattopadhyay, University of Calcutta, India

16:45-17:05 **Title: Anticancer Principles from Fruit Peel via Induction of Apoptosis in Different Cancer Cell Lines and their Metabolomic Study by HPLC-ESI-MS/MS.**

Dr. Ashik Mosaddik, BRAC University, Bangladesh

17:05-17:25 **Title: A Smart RFId Device for Drugs Administration**

Dr. Ernesto Iadanza, University of Florence, Italy

17:25-17:45 **Title: Drugs and Vitamin D Interaction**

Dr. Uwe Gröber, Essen Dresdner International University, Germany

17:45-18:05 **Title: Effect of Eicosapentaenoic Acid on Bone Changes due to Methyl prednisolone in rats: a Histomorphometric Approach**

Dr. Maryam Rezaian, University of Tehran, Iran

18:05-18:25 **Title: Proven predictive preclinical models for formulation-dependent human PK/PD and food effects using In silico, In vitro and In Vivo Preclinical Data**

Dr. Handan He, Novartis Pharmaceuticals Corporation, USA

## Breakout Room 2

15:20-17:00 B2B Meeting

17:00-19:00 Poster Presentations

19:00-20:00 Cocktails Sponsored by Journal of Pharmaceutics & Drug Delivery Research

## Day 3 22 February 2012

### Breakout Room 1

**Breakfast 08:30-09:00**

**Track 8: Novel Drug Delivery System Technology Targeting Different Route of Administration**

Track 8-1: Oral, Transmucosal Adhesive and Buccal Drug Delivery

Track 8-2: Rectal and Vaginal Drug Delivery

Track 8-3: Nasal and Inhalable Drug Delivery

Track 8-4: Transdermal and Topical Drug Delivery

Track 8-5: Ocular Drug Delivery

Track 8-6: Novel Approaches in Drug Delivery

**Session Introduction**

09:00-09:20 **Title: Chitosan-coated Solid Lipid Nanoparticles for the Oral Absorption Enhancement of Insulin**

Dr. Bruno Sarmiento, University of Porto, Portugal

09:20-09:40 **Title: Marine Phospholipids Based Potential Brain Drugs**

Dr. Su Chen, Chainon Neurotrophin Biotechnology Inc. San Antonio, USA

09:40-10:00 **Title: Intranasal Therapeutics (Drugs, Biopharmaceuticals and Stem Cells) Bypass the Blood-Brain Barrier to Treat Alzheimer's, Stroke, Parkinson's, Brain Tumors and other Neurological and Psychiatric Disorders**

Dr. William H. Frey II, Alzheimer's Research Center, USA

10:00-10:20 **Title: Nanoliposomes for Ocular Delivery of Ciprofloxacin: In-vitro and In-vivo Evaluations**

Dr. Mohsen A. Bayomi, King Saud University, Saudi Arabia



10:20-10:40 **Title: Polysaccharides as Flexible Materials for Nanoparticles Formulation Aimed at Mucosal Protein Delivery**  
Dr. Ana Grenha, University of Algarve, Portugal

**Coffee Break 10:40-10:55**

10:55-11:15 **Title: Hepatic Atypical PKC: A Novel Target for Newly-Developed Inhibitors that Reverse Obesity and Metabolic Syndrome and Diabetic Characteristics and Features in Human Hepatocytes and a Murine Obesity/Diabetes Model**

Dr. Robert V. Farese, University of South Florida, USA

11:15-11:35 **Title: Colon Delivery of Drugs Employing Natural Polysaccharides**

Dr. Gurpreet Kaur, Punjabi University, Patiala, India

11:35-11:55 **Title: Targeting FoxM1 Against Human Cancer**

Dr. Andrei L. Gartel, University of Illinois, USA

11:55-12:15 **Title: Preparation and In vitro Evaluation of Triamcinolone Acetonide Nanosuspensions for Topical Ophthalmic Drug Delivery**

Dr. Araz Sabzvari, Tehran University of Medical Sciences, Iran

12:15-12:35 **Title: The use of Egg Yolk Oil and Chitosan with Epidermal Growth Factor in the Treatment of Dermal Burns**

Dr. E. Yenilmez, Anadolu University, Turkey

12:35-12:55 **Title: Ocular Application of Cyclosporine A Using Chitosan Nanoparticles**

Dr. Ebru Basaran, Anadolu University, Turkey

12:55-13:15 **Title :Anti-Cancer Effects of Medical Malaysian Leech Saliva Extract (LSE)**

Dr. Ahmed Merzouk, UAIM University, Malaysia

**Lunch Break 13:15-13:50**

#### **Track 9: Nanotech for Drug Delivery**

Track 9-1: Biocompatible and Biodegradable Materials for Drug Nanoparticles

Track 9-2: Controlled Delivery of Nanoparticles in DDS

Track 9-3: Nanoparticles as Drug Carrier in DDS

Track 9-4: Site-Directed Controlled Nano-drug Delivery Systems

Track 10-2: Benefit/Risk Assessment during Drug Development

Track 10-5: Regulatory challenges in Nano and Biotech Therapeutics

**Session Introduction**

13:50-14:10 **Title: The Critical Role of Preclinical Oral Formulation Selection in Pharmaceutical Safety Assessment**

Dr. Evan A. Thackaberry, Genentech, South San Francisco, USA

14:10-14:30 **Title: Hyaluronic Acid-Based Nanoparticles: Implications for Drug Delivery and Molecular Imaging**

Dr. Jae Hyung Park, Sungkyunkwan University, Korea

14:30-14:50 **Title: Difficulties of Drug Development from Thai Herbal Medicine**

Dr. Tanawan Kummalue, Mahidol University, Thailand

14:50-15:10 **Title: Preparation of pH Sensitive Calcium Phosphate/SiO<sub>2</sub> Core-shell Nanoparticle for Drug Delivery**

Dr. Jin Chang, Tianjin University, P.R. China

15:10-15:30 **Title: Preparation and Characterization of PLGA Nanoparticles Covered by Albumin for Antitumor Drug Delivery**

Dr. Seyyed Hossein Mostafavi, Tehran University of Medical Sciences, Iran

15:30-15:50 **Title: Noscipine Nanotherapeutics: An Update**

Dr. Ramesh Chandra, University of Delhi, India

15:50-16:10 **Title: Benefits of New Tools in Biotechnology to Developing Countries in South Asia: A Perspective from UNESCO**

Dr. Ahmed Fahmi Program Specialist, UNESCO. India

**Coffee Break 16:10-16:30**

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3<sup>rd</sup> International Conference and Exhibition on

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